

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 02-229712

(43)Date of publication of application : 12.09.1990

(51)Int.Cl.

C01F 5/22

(21)Application number : 02-015017

(71)Applicant : KYOWA CHEM IND CO LTD

(22)Date of filing : 26.01.1990

(72)Inventor : MIYATA SHIGEO

HIROSE TORU

OKADA AKIRA

(54) PRODUCTION OF MAGNESIUM HYDROXIDE

(57)Abstract:

PURPOSE: To improve the crystal growth property by allowing quick lime to react with an aq. soln. contg. ions of Cl, Br, NO₃, etc., allowing the obtained slaked lime to react with MgCl₂ or Mg(NO₃)₂ in a specified equivalent ratio and further hydrothermally treating the reaction product.

CONSTITUTION: Quick lime is allowed to react with an aq. soln. of NaCl, KBr, KNO₃, etc., contg. about 0.1–5mol/l of ≥1 kind among Cl, Br and NO₃ ions at about 10–65° C, and a slurry at pH 11–11.8 contg. the slaked lime shown by formula I is obtained (A⁻ is Cl, Br and NO₃ ions, etc., and 0<x<0.1). About 0.5–0.95 equivalents of the slurry is allowed to react with one equivalent of MgCl₂ or Mg(NO₃)₂ in an aq. medium to form a basic MgCl₂ or basic Mg(NO₃)₂ shown by formula II (A is Cl and NO₃, 0<x<0.2, and m is 0–6), the product is hydrothermally treated at about 150–250° C, and the Mg(OH)₂ having about 1–10m²/g specific surface, about 0.5–5μm crystal grain diameter and 0.5–5μm average secondary grain diameter and almost without being aggregated is obtained.